dientia), Viverridae, Horses, or Antelopes, excepting a type of a separate division of Bovidae. But since several of these groups have been represented in recent times, no primary line of division can be profitably drawn.

Arctogaea as a whole may be characterised by both negative and positive characters. As negative features may be mentioned ; - the entire absence of Edentates *(Necrodasypus* of Pilhol is rather doubtful, see p. 164, n.), though a few crept up into the Nearctic region from Neogaea during past times ; and of Hapalidae, Cebidae, and Marsupials, except an Opossum in North America. This realm has^ on the other hand, all the I^emurs, all the Insectivores with the exception of the "West Indian *jSolenodon.f* all the Proboscidea, Rhinoceroses, Horses, Deer, Antelopes, the last group including the Oxen and a variety of other important families. It is in fact the headquarters of all the Eutheria with the exception of the Edentata and Marsupials.

The subdivisions of this realm have been variously effected. The classical subdivisions are of course those of Mr. Sclater, who would recognise (1) the Nearctic, North America ; (2) the Palaearctic, including Europe, Northern Asia, and Japan ; (3) the Oriental, including Asia south of the Himalayas and the islands of the Malay Archipelago as far east as the Australian region ; and (4) the Ethiopian, *i.e.* tropical Africa and Madagascar. Some would alter this by uniting America and the north of the Old World into a Holaretic region, separating off the southern parts of the North American continent into a Sonoran region. To some, the claims of Madagascar to form a separate region are convincing. To distinguish the boundaries of the several regions is a difficult task ; they dovetail into each other on the frontiers with the complex curves of a puzzle-map. The difficulty has been grappled with by the suggestion of intermediate transitional areas ; but this proceeding really doubles the difficulty, for there are then two frontiers to delimit in each case instead of only one. The animal inhabitants must be expected to mingle somewhat at the lines of junction of one region with another.

The Sonoran region does not appear to us to have great claims to recognition. It shows a mingling of southern with northern

forms exactly as might be expected. An Armadillo and *JHdelphys* have, as it is believed, invaded it from, the Neogaeic realm ; it possesses also the South .American genera, *Dicotyles, Ufasua, Cone-*